CONTENTS OF THIS VOLUME

VOLUME 22

Number 8

Olefin-carbon monoxide copolymers
A. Sommazzi and F. Garbassi 1547

Liquid crystal line epoxy based thermosetting polymers
C. Carfagna, E. Amendola and M. Giamberini 1607

Chain-growth control in free radical polymerization
D. Colombani 1649

Number 7

Polymerizations in liquid sulfur dioxide
B. M. Soares 1397

Wholly aromatic liquid crystalline polyesters
H. Han and P. K. Bhowmik 1431

Ziegler-Natta catalysts for olefin polymerizations
K. Soga and T. Shiono 1503

Number 6

Editorial v

Nonlinear optics and polymer physics
F. Ghebremichael, M. G. Kuzyk and H. S. Lackritz 1147

Furans in polymer chemistry
A. Gandini and M. N. Belgacem 1203

International symposium on lonic polymerization Istanbul
Y. Yagci and O. Vogl 1381

Number 5

Special Issue: Liquid Crystalline Polymers—Part 4

Guest Editor: V. Percec

The state of the art in metallomesogenic polymers
L. Oriol, M. Piñol and J. L. Serrano 873

Mineral liquid crystalline polymers
P. Davidson, P. Batail, J. C. P. Gabriel, J. Livage, C. Sanchez and C. Bourgaux 913

Thermotropic main chain polyesters
J.-I. Jin and C.-S. Kang 937

Rigid rod and liquid crystalline thermosets
A. Shiota and C. K. Ober 975

Liquid-crystalline cyclochain organosilicon compounds
N. N. Makarova and Y. K. Godovsky 1001

Smectic liquid crystals in main-chain type of polymers
J. Watanabe, M. Hayashi, Y. Nakata, T. Niori and M. Tokita 1053

Side chain liquid crystalline polymers at interfaces
V. V. Tsukruk and V. N. Bliznyuk 1089

Columnar mesophase behavior of poly(di-*n*-alkylsiloxane)s
A. Molenberg, M. Möller and E. Sautter 1133

Number 4

Special Issue: Liquid Crystalline Polymers—Part 3

Guest Editor: V. Percec

Molecular engineering of side-chain liquid crystalline polymers by living polymerizations
C. Pugh and A. L. Kiste 601

Side-chain liquid-crystalline poly(1,6-heptadiyne)s and other side-chain liquid-crystalline polyacetylenes
S.-K. Choi, J.-H. Lee, S.-J. Kang and S.-H. Jin 693

Theoretical descriptions of nematic polymers, networks and gels
X. J. Wang 735

Existence of highly ordered smectic structures in a series of main-chain liquid-crystalline polyethers
Y. Yoon, R.-M. Ho, F. Li, M. E. Leland, J.-Y. Park, S. Z. D. Cheng, V. Percec and P. Chu 765

Chain conformation of liquid-crystalline polymers studied by small-angle neutron scattering
J. P. Cotton and F. Hardouin 795

The application of side-chain liquid crystalline polymers
C.-S. Hsu 829

Number 3

Deformation Mechanisms and Yield Strength in Amorphous Polymers
Z. H. Stachurski 407

Vulcanization and Crosslinking in Elastomers
M. Akiba and A. S. Hashim 475

Interface Behaviour of Ionic Polymers
A. K. Bajpai 523

Novel Polymerization Methods for Allene Derivatives
T. Endo and I. Tomita 565

Number 2

Paint and Coatings: A Mature Industry in Transition
K. D. Weiss 203

Assembly of Supramolecular Polymers in Ultrathin Films
V. V. Tsukruk 247

Fourier Transform Raman Spectroscopy and its Application for the Analysis of Polymeric Materials
G. Xue 313

Number 1

Positron Annihilation—A Probe for Nanoscale Voids and Free Volume?
R. A. Pethrick 1

The Zero Average Contrast Condition: Theoretical Predictions and Experimental Examples
M. Benmouna and B. Hammouda 49

Azo-Group-Containing Polymers for use in Communications Technologies
O. Nuyken, C. Scherer, A. Baindl, A. R. Brenner, U. Dahn, R. Gärtner, S. Kaiser-Röhrich, R. Kollefrath, P. Matusche and B. Voit 93

International Symposium on Macromolecular Architecture
J. C. Vogl, T. Kitayama and O. Vogl 185